# IDEAL MEXICO SLIMLINE 2 RS 40 & RS 50 Balanced Flue Gas Boilers

## Installation & Servicing

**CAUTION**
To avoid the possibility of injury during the installation, servicing or cleaning of this appliance, care should be taken when handling the edges of sheet steel components.

**NOTE:** The appliances are for use with **NATURAL GAS ONLY.**

### LEAVE THESE INSTRUCTIONS ADJACENT TO THE GAS METER

<table>
<thead>
<tr>
<th>Boiler Size</th>
<th>RS 40</th>
<th>RS 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Burner Bar</td>
<td>Aeromatic AC 19/123 291</td>
<td>Bray Mk.9 AB 16541</td>
</tr>
<tr>
<td>Gas Control</td>
<td>%in, BSP Honeywell Compact</td>
<td></td>
</tr>
<tr>
<td>Burner Injector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot Injector</td>
<td>Honeywell 45004 108 001</td>
<td>Honeywell 0.304600006-01</td>
</tr>
<tr>
<td>Gas Supply Connection</td>
<td>in, BSP</td>
<td></td>
</tr>
<tr>
<td>Flow Connections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Connections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Static Water Head m (ft)</td>
<td>30.5 (100)</td>
<td></td>
</tr>
<tr>
<td>Minimum Static Water Head m (ft)</td>
<td>1.0 (3.3)</td>
<td></td>
</tr>
<tr>
<td>Electric Supply</td>
<td></td>
<td>230 V - 50Hz</td>
</tr>
<tr>
<td>External Fuse Rating</td>
<td>-3 amp</td>
<td></td>
</tr>
<tr>
<td>Water Content</td>
<td>litre</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>gal.</td>
<td>3.5</td>
</tr>
<tr>
<td>Dry Weight Inc. Bal, Flue terminal kg</td>
<td>81.50</td>
<td>90.46</td>
</tr>
<tr>
<td></td>
<td>lb.</td>
<td>180</td>
</tr>
</tbody>
</table>

### PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Boiler Input *</th>
<th>RS 40</th>
<th>RS 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. kW Btu/h x 1 000</td>
<td>11.72</td>
<td>15.84</td>
</tr>
<tr>
<td>max. kW Btu/h x 1 000</td>
<td>40</td>
<td>54.1</td>
</tr>
<tr>
<td>Boiler Output to Water kW Btu/h x 1 000</td>
<td>15.12</td>
<td>19.28</td>
</tr>
<tr>
<td>max. kW Btu/h x 1 000</td>
<td>51</td>
<td>65.8</td>
</tr>
<tr>
<td>Burner Setting Pressure mbar (gauge)</td>
<td>8.7</td>
<td>9.7</td>
</tr>
<tr>
<td>max. mbar (gauge)</td>
<td>3.5</td>
<td>3.9</td>
</tr>
<tr>
<td>min. in.w.g.</td>
<td>14.1</td>
<td>14.5</td>
</tr>
<tr>
<td>max. in.w.g.</td>
<td>5.6</td>
<td>5.8</td>
</tr>
</tbody>
</table>

**Note:** *(a) To obtain gas consumption (a) in cu.ft/h – divide heat input (Btu/h) by C.V. of the gas (Btu/cu.ft). *(b) in litres/second – divide heat input (kW) by C.V. of the gas (MJ/m²).*
INTRODUCTION

The Ideal Mexico Slimline 2 RS 40 & 80 50 models are floor-standing open flued boilers, range rated, having outputs of 8.79 to 11.72 kW (30 00 to 40 00 Btuh) and 11.72 to 14.65 kW (40 000 to 50 000 Btuh) respectively.

The boiler is supplied with an insulated blanket of aluminium foil backed fibreglass, covering the top and sides of the boiler body, and held in place by a securing strap. (See Fig 1).

The boiler casing is of mild steel, white enamelled top side, and the front and rear side panels are stainless steel.

The boiler thermostat is located behind the lower front panel, in the control box mounted on the gas valve.

![Fig 1](image)

**Fig 1**

**TENSION STRAP FASTENING**

The boilers are suitable for connection to open vented systems only. While they may be pumping, or gravity circulating indirect DHW only, pumped central heating only, or pumped central heating combined with either a pumped or gravity circulating indirect DHW circuit.

**IMPORTANT**

This appliance range is certified by the British Standards Institution for safety and performance. It is, therefore, important that it is installed in accordance with the relevant sections of the I.E.E. Regulations and, in Scotland, the electrical provisions of the Building Regulations applicable in Scotland with respect to the installation of the boiler in a room containing a bath or shower. Where installation will be in an unusual position, special procedures may be necessary and BS 5376:2 gives detailed guidance on this aspect.

The aspect used to ensure the boiler must be designed and constructed specially for this purpose. An existing cupboard or compartment may be used provided it is modified for the purpose. Details of the essential features of cupboards/compartment design, including seating arrangements, are given in BS 5376:2.

In sitting the boiler, the following limitations MUST be observed—

1. The position selected for installation must allow adequate space for servicing in front of the boiler. Side clearance is only necessary for installation. The amount of side clearance will depend on the type of connections used. Where side units are used to facilitate installation then no clearance is required.

2. This position MUST also provide the provision of a satisfactory balanced flue termination.

**GAS SUPPLY**

The local Gas Regulator should be consulted at the installation planning stage in order to establish the availability of an adequate supply of gas. The pressure must be checked and the position of the pressure must be on the supply tube near the flue connection. A local authority inspector should be contacted to inspect the installation.

A gas meter is connected to the service by the local Gas Region or a local Gas Region contractor. An existing meter should be checked infrequently by the Gas Regulator to ensure that the meter is adequate to deal with the flue gas supply required.

Installation pipes should be fitted in accordance with CP 321-3.

Penwork from the meter to the boiler must be of adequate size. Do not use a pipe of less size than the boiler gas connection.

The complete installation must be tested for soundness as described in the above code.

**FLUING**

Detailed recommendations for fluing are given in BS 5440:1.

1. The appliance MUST be installed so that the flue terminal discharges directly into the external air.
2. Termination should be on a clear expanse of wall, the terminal being preferably not less than 600mm (2ft) away from a corner, recess or projection.
3. Do NOT install the flue:
   a) (Within 300mm (1ft)) measured vertically, from the bottom of an operable window, air vent or any other ventilation opening.
   b) (Within 700mm (2.3ft)) above adjacent ground level.
   c) (Within 600mm (2ft)) of any surface facing the terminal.
   d) Immediately below eaves or a balcony.
   e) Where it is subject to accidental obstruction.

4. Where the lowest part of the terminal is less than 2m (6.6ft) above the level of any ground, balcony, flat roof or place to which people have access, the terminal MUST be protected by a guard of suitable material. The dimensions of the guard shall be such that when fitted in accordance with the manufacturer's instructions, it shall be at least 600mm (2ft) from any part of the terminal, not including the wall plates.

The guard shall not have any sharp edges likely to cause injury, nor shall any opening permit the entry of a ball of 15mm (0.6")) diameter under a force of 5N.

The material finish and mechanical strength of the guard shall be such as to ensure a reasonable life in normal working conditions. The guard shall not affect the performance of the appliance.

Terminal guards are available from—

Quinnell, Barrett & Quinnell Ltd., BRI Old Kent Road, London SE15, and from Tower Fire Components Ltd., Vale Ilse, Fareham, Kents, TQ17 1TB.

5. The air inlet products outlet duct, and the terminal of the boiler MUST be NOT closer than 50mm (2in) to combustible material.

Detailed recommendations on protection of combustible material are quoted in BS 5440:1.

**BOILER TERMINAL**

The terminal box of the balanced flue, with the addition, if necessary, of a duct extension, can be adapted to accommodate various wall thicknesses. Refer "PACKAGING" (page 4).

Note: Before the boiler is to be installed in line with kilometic kitchen units (i.e. 600mm in depth), a special standard flue terminal is available.

**AIR SUPPLY**

Detailed recommendations for air supply are given in BS 5440:2, the following notes being intended for general guidance:

1. It is only necessary to have a purpose provided air vent in the room in which the boiler is installed.
2. The boiler should be installed in a cupboard or compartment, permanent air vents are not required, for cooling purposes, the cupboard/compartments, at both high and low levels.
3. These air vents may communicate with a room/internal space or direct to outside air.

The minimum effective areas of the permanent air vents required in the cupboard/compartments are as follows:

<table>
<thead>
<tr>
<th>Position of air vent</th>
<th>Air from room/ internal space</th>
<th>Air direct from outside air</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Level</td>
<td>700m² (27.5m²)</td>
<td>700m² (27.5m²)</td>
</tr>
<tr>
<td>Low Level</td>
<td>700m² (27.5m²)</td>
<td>700m² (27.5m²)</td>
</tr>
</tbody>
</table>

Note: Both air vents must communicate with the same room, or internal space, or must both be on the same wall to outside air.

**WATER CIRCULATION SYSTEM**

The appliance must NOT be used for direct hot water supply, or for sealed systems.

The following indirect open vented systems are suitable:

- Combined gravity domestic hot water and pumped central heating, Combined pumped gravity domestic hot water and pumped central heating.

Gravity domestic hot water only, up to a maximum domestic hot water cylinder storage capacity of 150 litres (40 gal.).

The resistance with an 11°C temperature difference will be approximately 2.5m (8ft).

The central heating system should be in accordance with the relevant recommendations given in BS 5376:2, and, in addition, for small bore and microboilers systems – BS 5440:1.

The domestic hot water system, if applicable, should be in accordance with the relevant recommendations of BS 5446, Copper tubing to BS 287/1:1 is recommended for water carrying pipework. The hot water storage cylinder MUST be of the indirect type and should be preferably manufactured of copper. The hot water cylinder and annular pipework not forming part of the steel heating surface, should be lagged to prevent heat loss and any possible freezing, particularly where pipes are run through roof spaces and ventilated under floor spaces.

The flow and return connections to a fully pumped system may be made either at one side of the boiler or diagonally, to suit convenience. In a combined pumped heating and gravity domestic hot water system, the gravity flow and return connections must be made to the same side of the boiler, and the pumped connections to the opposite side.

The boiler MUST be wired as if it were not going to be dovetailed in a flow connection, a separate vent must be fitted by the installer.

Draining taps must be located in accessible positions which, permit the draining of the whole system, including the boiler and hot water storage vessel. Draining taps should be at least 15mm nominal size and be in accordance with BS 2879.

**ELECTRICAL SUPPLY**

**WARNING:** The appliance MUST be efficiently earthed.

A mains supply of 230 V – 50Hz single phase, fused at 3 A is required.

All external controls and wiring MUST be suitable for outdoor use.

Wiring external to the boiler MUST be in accordance with current I.E.E. Wiring Regulations and local regulations.
INSTALLATION

Before commencing installation, remove the flue clean-out cover. (See Fig. 2 and ensure that the flue restricter, slit over the flue way, does not work loose, as illustrated in the right.

Legend – Fig. 2
1. Terminal grille
2. Heat exchanger
3. Thermobat pocket
4. Clean out cover
5. Control box
6. Gas valve
7. Gas cock
8. Front plate
9. Main burner
10. Placo unit
11. Data plate
12. Air duct
13. Flue duct

allow adequate space in front of the boiler for servicing purposes.

DIMENSIONS

Legend – Fig. 2
1. Terminal grille
2. Heat exchanger
3. Thermobat pocket
4. Clean out cover
5. Control box
6. Gas valve
7. Gas cock
8. Front plate
9. Main burner
10. Placo unit
11. Data plate
12. Air duct
13. Flue duct

Packaging
The boiler is supplied fully assembled and despatched in one carton, together with either one or two of four cartons: A, B, C, or D.

Cartons A, B, C & D contain the terminal outlet appropriate to the wall thickness. Carton D contains the flue duct extension.

Supplied in carton
Boiler fitted flush to wall
Boiler fitted in-the-wall
with kitchen units
Wall thickness
Wall thickness
C
114 to 191
114 to 191
(4 1/2 to 7 1/2)
(4 1/2 to 7 1/2)
up to 7/2
up to 7/2
B
229 to 308
229 to 308
(9 to 12)
(9 to 12)
163 to 242
163 to 242
(6 1/2 to 9 1/2)
(6 1/2 to 9 1/2)
B1
319 to 398
319 to 398
(12 1/2 to 15 1/2)
(12 1/2 to 15 1/2)
252 to 332
252 to 332
(10 to 13)
(10 to 13)
B & D
400 to 584
400 to 584
(16 to 23)
(16 to 23)
340 to 518
340 to 518
(13 1/4 to 20 1/4)
(13 1/4 to 20 1/4)

Note: All dimensions in mm.

The boiler is to be floor standing & the space in which the boiler is to be fitted must have the following dimensions:
Width
1000 (40 in)
Depth
530 (21 in)
Height
870 (34 1/4 in)

This space includes the following minimum clearances for installation & servicing:
At the top of the boiler
20 (2 3/4 in)
At each side of the boiler
5 (1 1/16 in)
In addition the minimum clearance of 530 mm (20 in) must be available at the front of the boiler to enable servicing.

To avoid damage to the boiler jacket it is recommended that the jacket is removed before the boiler body is taken off the pallet. Lift off the lower front panel, then by unscrewing the 2 self-tappers located at the bottom edge of the upper front panel.

Water Connections (Fig. 5)

This appliance is NOT suitable for use in either a sealed system or a direct system. All water connections are Rsc 1 1/2 1 1/4 in BSP. The front top and bottom plugged connections MUST NOT BE USED. Two spare blanks off plugs are provided, in the hardware pack, for use as necessary in the rear flow or return water connections.

Pipework connections to all systems may use flow and return connections on the same side, or opposite sides of the boiler. That is:
- Fully Pumped System
In a fully pumped system, either a LH or a RH flow connection, together with a LH or RH return connection, may be used.
- Gravity Domestic Hot Water and Pumped Central Heating
In a gravity DHW and pumped CH system separate flow and return connections are used for each service. The use of a cylinder thermostat is recommended. This will...
**ELECTRICAL CONNECTIONS**

**WARNING:** The appliance MUST be efficiently earthed.

A mains supply of 230 V – 50Hz single phase is required.

All external control wiring and wiring MUST be suitable for mains voltage.

Wiring should be in 3 core PVC insulated cable NOT LESS THAN 0.75mm² (24 x 0.2mm) to BS 6500, Table 16.

Wiring external to the boiler MUST be in accordance with current I.E.E. Wiring Regulations and local regulations.

The supply connection MUST be made to a fused double pole switch, having a 3mm (1/8") contact separation in both poles, serving only the boiler and system controls.

The fuse rating should be 3 A.

This connection should be readily accessible and be made adjacent to the boiler (except in the case of bathroom installations for domestic boilers where the point of connection to the mains MUST be outside of the bathroom.)

Wiring within the boiler casing must be neatly secured in

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**Fig. 9** WIRING DIAGRAM

**Fig. 10** PICTORIAL WIRING DIAGRAM

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**GAS CONNECTIONS**

A minimum gas pressure of 20 mbar (5in.w.g.) MUST be available at the boiler inlet. The main gas cock is at the bottom left of the boiler and attachment to the gas supply may be either LH or RH.
be inspected and tested for soundness, and purged in accordance with the recommendations of CF 331-3. Purgating air from the gas installation may be expedited by removing the cabinet front panel of the boiler, loosening the union of the inlet gas cock and purging until gas is small. Re-tighten the union and check for gas soundness.

**WARNING**

While operating the required gas soundness test and purging air from the gas installation, open all windows and doors, extinguish naked lights, and do not smoke.

**Water Circulating System**

The whole of the system should be thoroughly flushed out with cold water WITHOUT the pump in position. Ensure that all valves are open.

With the pump fitted, the system should be filled and air locks cleared. Check for water soundness.

**SATCHWELL DUOFL ow**

**TWIN MOTORISED VALVES**

**LANDIS & GYR LCM**

**INITIAL LIGHTING INSTRUCTIONS (Refer Fig. 18)**

The inlet gas cock must have been OFF for at least three minutes before indicating the lighting sequence. Check that all drain cocks are closed and that stop valves in the flow and return lines are open.

Check that the inlet gas cock is ON and that the boiler thermostat control knob is at OFF.

Open the valve to the gas cock and close the boiler thermostat control knob to OFF.

Close the valve to the gas cock and open the boiler thermostat control knob to OFF.

Turn the gas control knob (4) clockwise until resistance is felt and then release it. Wait for three minutes.

Close the valve to the gas cock and open the boiler thermostat control knob to OFF.

**USER'S INSTRUCTIONS**

After completion of installation of the appliance and connecting the system, the installer should hand over to the household holder the following actions:

1. Hand over the 'User's Instructions' publication to the household holder and explain their responsibilities under the Gas Safety Regulations, 1972.
2. Draw attention to the Lighting Instruction Plate affixed to the inside of the front panel.
3. Explain, and demonstrate, the lighting and shutting down procedures.
4. The operation of the boiler and the use, and adjustment, of ALL system controls, should be fully explained to the household, to ensure the efficient and economical, consistent with household requirements of both heating and hot water consumption. Advise the user of the precautions necessary to prevent damage to the system.

**SERVICING**

**WARNING:**
Switch OFF, and disconnect, the electricity supply and turn OFF the inlet gas cock BEFORE servicing the boiler.
A comprehensive service should be carried out at least once a year. The User is advised to make a contract with the Gas Region or a qualified Heating Engineer.

To remove the lower front panel of the cabinet, then by unscrewing the two self-tapping screws located at the bottom edge of the upper front panel push back and remove the upper front panel.

Unscrew the union nut at the main gas cock. Disconnect the mains plug from the boiler control box. Remove the pilot of the boiler thermostat from its socket. Remove the wing nuts and washers securing the burner front plate, and remove the burner assembly complete with the gas valve, control box and associated gas line etc., from the boiler.

Inspect the pilot burner, thermocouple and ignition electrode. When replacing a defective main burner, it is most important that the baffles (refer Fig. 20—items 13 & 14) are fitted to the new burner. (Fig. 19)

**ADJUSTMENT OF GAS PRESSURE**
After each occasion of servicing, reference should be made to Table 1 which quotes details of the rated output with the related burner setting pressure and heat input. Any required adjustments should be made by using the pressure adjustment screw (B) illustrated in Fig. 18. Replace the upper and lower front panels in reverse order to that under the heading “PACKAGING.”

**REPLACEMENT OF COMPONENTS**

**WARNING:**
ALWAYS TURN OFF THE GAS SUPPLY AND SWITCH OFF THE ELECTRICITY SUPPLY BEFORE WORKING ON THE APPLIANCE.

Note:
To replace the following components it will be necessary to remove the casing lower front panel.

**Sight Glass**
Undo the three wing nuts holding the sight glass assembly to the burner front plate. When fitting the replacement assembly make certain the parts are in correct order (i.e. gasket, glass, gasket and frame). Tighten the three wing nuts to ensure an air-tight joint but DO NOT OVERTIGHTEN.

**Boiler Thermostat**
Remove the electrical plug connection at the side of the control box. Remove the split pin and withdraw the phial from the pocket. Remove the screw on the top left hand side of the control box and lift away the top half of the control box from the bottom half of the control box. It is not necessary to disconnect the lead to the gas valve.

Pull off the thermostat knob and the two electrical connections to the thermostat head. Unscrew the two screws holding the thermostat to the control box and withdraw the thermostat casquill from the plastic clip inside the control box. Fit the replacement thermostat and reassemble in reverse order.

**Piezo Unit**
Unplug the igniter lead from the piezo unit body, remove the two nuts securing the body to the studs on the gas valve and fit the new unit. Re-connect the igniter lead.

**Igniter Lead**
Switch off the electricity supply and disconnect the mains plug from the boiler control box. Turn off the inlet gas cock and disconnect the union nut. Withdraw the boiler thermostat phial from the pocket after removing the split pin.

Remove the wing nuts securing the burner front plate. This plate, complete with burner assembly and gas line, can now be removed from the boiler. The igniter lead can be removed by disconnecting at the piezo unit and the electrode. Fit the new igniter lead in reverse order.

**Thermocouple**
Remove the burner assembly as previously described. Undo the four thermocouple connections at the pilot burner and gas valve. Fit new thermocouples. Avoid sharp bends in the thermocouple lead. Re-assemble in reverse order.

**Electrode**
Remove the burner assembly as above (under "Igniter Lead" paragraph). Pull off the igniter lead at the electrode. The RS 40 electrode is held by a clip which should be gently prised aside; the electrode can then be withdrawn downwards.

The RS 50 electrode is secured by a nut. Remove the nut and withdraw the electrode upwards. Re-assemble in reverse order.

**Pilot Burner**
Remove the burner assembly described (under "Igniter Lead"). Remove igniter electrode (described under Electric Unit). Undo the thermocouple connections at the gas valve and at the pilot burner. Undo the two screws holding the pilot burner to the pilot burner bracket. The screw securing the bracket will be withdrawn. Fit the new pilot burner, ensuring that the pilot ignitor is in position when refitting the pilot pipe, and re-fit the thermocouple and electrode. Re-assemble in reverse order.

**Control Box**
Disconnect the electrical plug connection at the left hand side of the control box. Remove the split pin and withdraw the thermometer phial from the pocket. Remove the screw on the top left hand side of the control box and withdraw the top half of the control box from the lower half. Disconnect the leads from the gas valve. Remove the lower half of the control box from the gas valve by unscrewing the securing screw. Fit the new control box in reverse order.

**GAS VALVE AND MAIN BURNER**
Remove the burner and control assembly as previously described under "Igniter Lead".

**Main Burner - RS 40**
Undo the nut securing the pilot bracket to the main burner and remove the pilot bracket. Undo the four nuts securing the burner to the front plate and gas valve outlet pipe and withdraw the burner. Fit the new burner in reverse order, taking care not to damage the main injector in the end of the gas valve outlet pipe. Refit the pilot burner, pilot pipe, thermocouple and igniter electrode.

**Main Burner - RS 50**
Undo the nut securing the pilot bracket to the main burner and remove the pilot bracket. Undo the four nuts securing the burner to the front plate and gas valve outlet pipe and withdraw the burner. Remove the nuts securing the burner baffle to the burner (ensure that this baffle is refitted to the new burner). Fit the new burner in reverse order, being careful not to damage the main injector which is screwed into the end of the gas valve outlet pipe.

**Gas Valve**
Remove the control box as previously described. Remove the piezo unit by unscrewing the two nuts which secure the body to the studs on the gas valve. Undo the pilot pipe and thermocouple connections at the gas valve.

Unfasten the two nuts and screws securing the gas supply pipe to the left hand side of the gas valve. Unfasten the four screws securing the gas valve outlet pipe. The two sealing "O" rings should be discarded, and new "O" rings fitted. Re-assemble in reverse order ensuring that the new gas valve is fitted in the right way around (an arrow engraved on the gas valve indicates the direction of flow).

Ensure that the sealing "O" rings are fitted correctly between the flanges on the end of the gas pipes and the gas valve. Check the complete assembly for gas soundness.

**IMPORTANT**
Use an approved jointing compound when replacing the main burner injector or service cock.
FAULT FINDING

Detailed instructions on the replacement of faulty components will be found in the Servicing section of this booklet.

PILOT WILL NOT LIGHT:

Is there a spark at the ignition electrode?

NO

YES

Check the gap between the electrode and pilot burner (1mm). (Fig. 22). Check that the HT lead is undamaged and that the connections are not close to earthed metalwork.
Check that the piezo unit is operative by holding an earthed screwdriver approximately 3mm from the HT output terminal (with the ignition lead removed) and operating the button. There should be a spark across the gap.

Is there gas at the pilot burner when the gas valve button is pressed?

NO

YES

Allow time to purge any air present by increasing the pilot gas rate by adjusting the screw. Check that the gas valve button is being pressed fully in.
Check that there is gas pressure at the boiler inlet.
Check that the pilot jet is not blocked.

Does the pilot burner light when a match is applied?

YES

NO

Adjust the pilot to correct size, (Flame enveloping approximately 13mm of the thermocouple tip). Confirm satisfactory ignition using the piezo unit.

Faulty piezo unit — replace.

PILOT WILL NOT STAY LIT WHEN THE GAS VALVE BUTTON IS RELEASED:

Is the connection between the thermo-couple and the gas valve clean and tight?

NO

YES

Clean contacts and re-connect securely. (Refer Page 10).

Is the pilot flame of the correct length?
(Flame enveloping approximately 13mm of the thermocouple tip).

NO

YES

Adjust pilot gas rate

Check the thermocouple output or replace thermocouple.
Reference may be made to Procedure 5,
British Gas Multimeter Instruction Book.
Does pilot now stay alight?

Replace gas valve.

(A) RS 40 Pilot assembly
3-4 mm
Thermocouple

(B) RS 50 Pilot assembly

Fig. 22

IDEAL MEXICO SLIMLINE 2
PILOT LIT BUT NO MAINS GAS:

Have you confirmed that the system controls are calling for heat?

NO

YES

Is there a supply voltage at the input to the control box?

NO

Check the settings of the programmer, room thermostat, cylinder thermostat etc. Check the control system. Reference may be made to Procedures 6 and 7, British Gas Multimeter Instruction Book.

YES

Check with the multimeter set on the 300V AC range between L and N at the control box (page 6, fig.8).

Expect 230 +10% -6%.

NO

If no supply then check the fuse in the plug or other supply point

YES

Is there a supply voltage between the gas valve terminals

Expected 230 +10% -6%.

YES

The main burners should now light.

NO

Faulty gas valve. Check. Reference may be made to Procedure 6 of the British Gas Multimeter Instruction Book.

YES

After any faults have been corrected, return all the thermostatic and other controls to the previously noted settings.

SHORT LIST OF PARTS

The following list comprises parts commonly required as replacements. It is extracted from the B.G.C. List of Parts which contains all available spare parts. Copies of the B.G.C. lists are held by Gas Regions, Caradon Ideal Ltd. distributors and by merchants.

IDEAL MEXICO SLIMLINE 2, RS 40 GAS BOILER

When ordering parts, please quote:

1. Boiler Model
2. B.G.C. Appliance Number
3. Description
4. Maker’s Part Number
5. Quantity

Table: Key No. | B.G.C. Pt. No. | Description | No. Off | Maker’s Pt. No.
---|---|---|---|---
5 | 319 414 | Sight glass assembly kit | 1 | 078 334 |
7 | 378 371 | Main burner Aernico AC19/123 291 (less injector) complete with pilot burner bracket | 1 | 100 165 |
8 | 398 399 | Burner Injector Bray Cat. 16 size 1100 | 1 | 003 279 |
9 | 382 944 | Pilot burner Honeywell Q 305A 1070 complete with injector (Honeywell 45 004 106 031 marked 3806A) | 1 | 075 355 |
12 | 303 650 | V-cone, ISP Honeywell Compact gas control V4500A 1023 240v | 1 | 003 114 |
13 | 386 047 | Spark generator Vontron 003830 | 1 | 052 280 |
14 | 398 476 | Ignition electrode and HT lead assy. (HT lead 600 mm long) | 1 | 078 086 |
15 | 390 039 | Thermostat Honeywell Q 305A 2730 600mm lg. (2) | 1 | 003 432 |
16 | 341 060 | Control box including Key Nos. 17, 18 and 19 | 1 | 052 021 |
17 | 342 401 | Thermostat Ranco C/67P0/40 with hi. capacity (replace C68 P015 interchangeably) | 1 | 003 179 |
18 | 341 359 | Thermostat knob assembly (PLASTEX) | 1 | 057 263 |
19 | 300 390 | Suppressor assy.ITT TS121A plastic can type with wiring harness | 1 | 058 887 |
20 | 304 776 | Main connector Ashley or Bulgin to CEE 22 Sheet V and BS 4401 | 1 | 003 058 |
21 | 319 462 | Jacket White stov enamel with White upper front panel including key No.23, 24, 25, 26 & 27 | 1 | 078 222 |
22 | 341 062 | LH side jacket panel assy. White stov enamel | 1 | 132 256 |
23 | 341 063 | RH side jacket panel assy. White stov enamel | 1 | 132 256 |
24 | 341 064 | Jacket top panel assy. White stov enamel | 1 | 132 282 |
25 | 319 346 | Jacket upper front panel assembly. White stov enamel | 1 | 078 221 |
26 | 319 463 | Jacket lower front panel assy. White stov enamel | 1 | 078 230 |

THIS SYMBOL IS YOUR ASSURANCE OF QUALITY

These appliances are designed for use with Natural Gas only and have been tested and conform with the provisions of BS 6532 and BS 6526.

Products bearing this symbol are made to a safety and performance standard under a stringent scheme of supervision and control monitored by the British Standards Institutes.
**SHORT LIST OF PARTS**
The following list comprises parts commonly required as replacements. It is extracted from the B.G.C. List of Parts which contains all available spare parts. Copies of the B.G.C. lists are held by Gas Regions, Caradon Ideal Ltd. distributors and by merchants.

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<tr>
<td>5</td>
<td>319 414</td>
<td>Sight glass assembly kit</td>
<td>1</td>
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<td>7</td>
<td>398 251</td>
<td>Main burner Bray Mk. 9 AB 16641 (less injector)</td>
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<td>8</td>
<td>398 057</td>
<td>Burner injector Bray Cat. 10 <strong>Size 1350</strong></td>
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<td>9</td>
<td>391 664</td>
<td>Pilot burner Honeywell Q392A 1041 complete with injector Key No. 10</td>
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<td>10</td>
<td>391 665</td>
<td>Pilot burner Honeywell 0.30A 45000062-010</td>
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<td>12</td>
<td>393 659</td>
<td>Yarn, BSP Honeywell Compact gas control V4600A 1023 240V</td>
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<td>13</td>
<td>388 047</td>
<td>Spark Generator Ventron 60039/01</td>
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<td>14</td>
<td>341 961</td>
<td>Ignition electrode and HT lead assy. (HT lead 460mm lg.)</td>
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<td>Thermocouple Honeywell Q309A 2739 600mm lg.</td>
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<td>Control box including Key Nos. 17, 18 and 19</td>
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<tr>
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<td>382 401</td>
<td>Thermostat Ranco CLP014 with 24 in. capillary (replaces C26 P0616 Interchangeable)</td>
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<td>341 359</td>
<td>Thermostat knob assembly (FASTEX)</td>
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<td>19</td>
<td>393 390</td>
<td>Suppressor assy. I.TT TS121A plastic can type with wiring harness</td>
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<td>20</td>
<td>364 776</td>
<td>Mains connector Ashley or Bulgin to CEE 22 Sheet V and BS.4491</td>
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<td>21</td>
<td>319 462</td>
<td>Jacket White Stove enamel with, White upper front panel including Key No.s 23, 24, 25 &amp; 27</td>
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<td>22</td>
<td>341 062</td>
<td>LH Side jacket panel assy. White Stove enamel</td>
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<tr>
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<td>RH Side jacket panel assy. White Stove enamel</td>
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<td>24</td>
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<td>Jacket top panel assy. White Stove enamel</td>
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<td>25</td>
<td>319 346</td>
<td>Jacket upper front panel assembly. White Stove enamel</td>
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<tr>
<td>26</td>
<td>319 463</td>
<td>Jacket lower front panel assy. White Stove enamel</td>
<td>1</td>
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</tbody>
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**IDEAL MEXICO SLIMLINE 2 RS 50 GAS BOILER**
When ordering spares, please quote:
1. Boiler Model
2. B.G.C. Appliance Number
3. Description
4. Maker's Part Number
5. Quantity

**CARADON IDEAL Ltd.** pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

**Customer Care & Technical Support**
*Please use the following numbers for speedy assistance.*

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Southern England/S. Wales ........................... Tel: 01482 498 650
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**Publications/literature.** ................................. Tel: 01482 498 467

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